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FIRMAN[®]
SOLAR OFF-GRID SYSTEM



Protect your lifestyle against power outages!

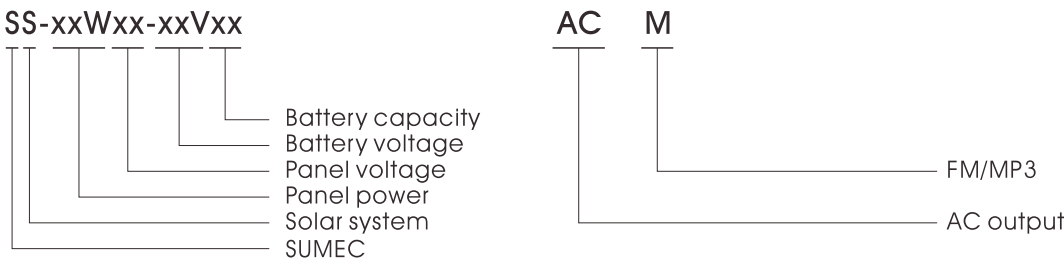


SOLAR OFF-GRID SYSTEM

DC Series



*Economical,
convenient,
reliable and durable!*



DC Series

FIRMAN



DC Series Features:

- DC output: 5V, 12V
5V: for mobile phone (USB connector)
12V: for LED lamp, DC TV, DC fan, etc
- Max. current output: 5V USB 1A, 12V DC 6A
- Panel equipped with LCD display of working status
- Panel equipped with switches for all output to save power
- Panel equipped with 12V DC charging input connector

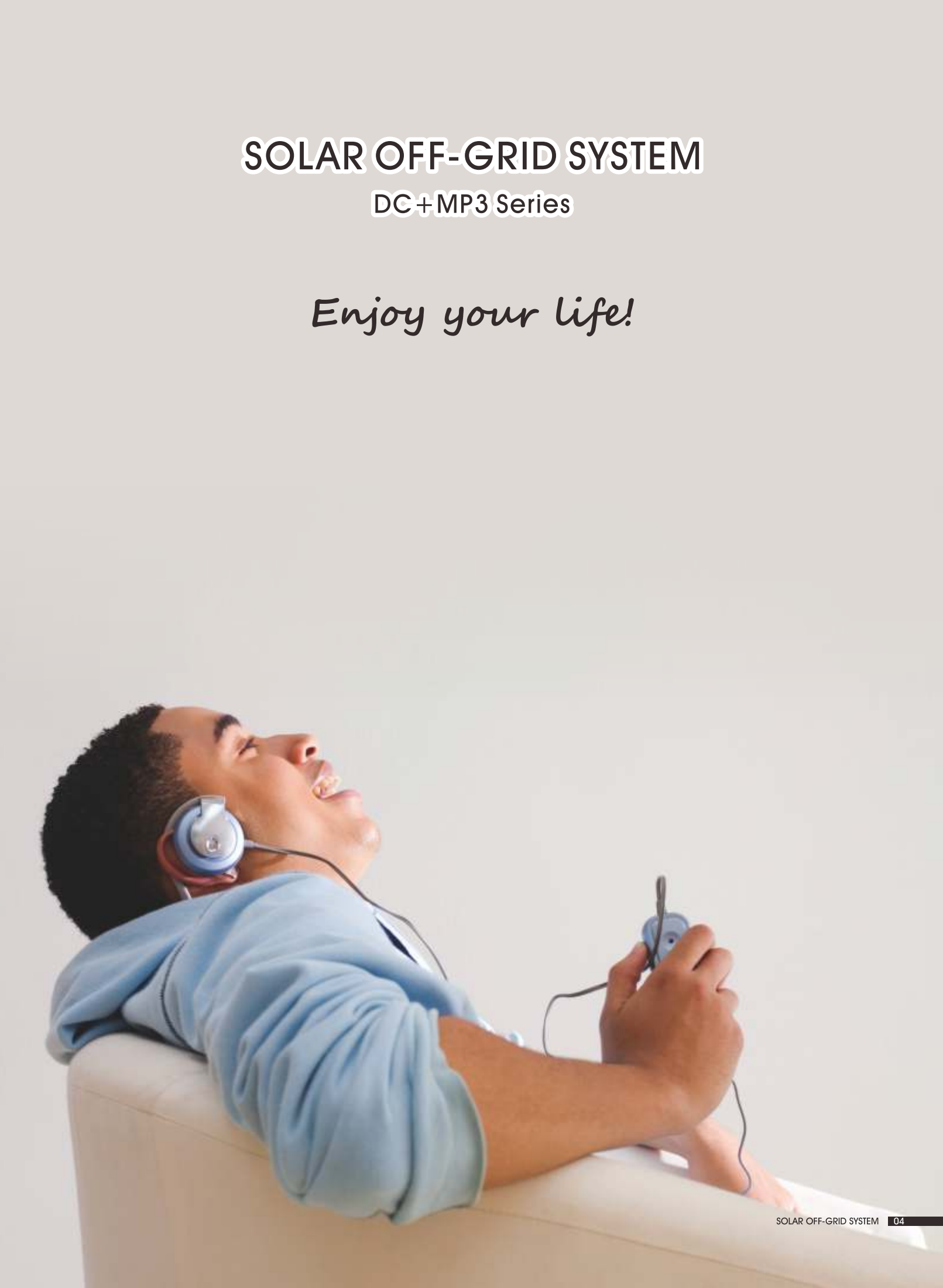


SOLAR OFF-GRID SYSTEM

DC+MP3 Series

Enjoy your life!

No.	MODEL	Configuration	Fully Charging Time	Using Time			
				Lamps	12V/15W DC FAN	12V/30W DC TV	70W/21" AC TV
DC Series	1	SS-8W18-12V4 1. Solar panel:8W 18V 2. Battery: 12V 4.5AH 3. Controller: 12V 10A 4. DC output: 4*DC12V,2*USB5V 5. LED Lamp: 3W*2pcs 6. phone adapter(1A) 7. With LCD display of working status 8. With switches for all output to save power 9. With 12V DC charging input connector	8.0-10.0h	7-8h	2-3h	1-1.5h	NA
	2	SS-15W18-12V7 1. Solar panel:15W 18V 2. Battery: 12V 7AH 3. Controller: 12V 10A 4. DC output: 4*DC12V,2*USB5V 5. LED Lamp: 3W*2pcs 6. phone adapter(1A) 7. With LCD display of working status 8. With switches for all output to save power 9. With 12V DC charging input connector	7.0-9.0h	10-11h	4.0-5.0h	1.5-2.5h	NA





DC + MP3 Series Features:

- DC output: 5V, 12V
5V: for mobile phone (USB connector)
12V: for LED lamp, DC TV, DC fan, etc
- Max. current output: 5V USB 1A, 12V DC 6A
- Supply FM and MP3 player (MP3 needs inserting USB memory card)
- Panel equipped with LCD display of working status
- Panel equipped with switches for all output to save power
- Panel equipped with 12V DC charging input connector



No.	MODEL	Allocation	Fully Charging Time	Using Time			
				Lamps	12V/15W DC FAN	12V/30W DC TV	70W/21" AC TV
DC + MP3	3	SS-25W18-12V12M 1. Solar panel:25W 18V 2. Battery: 12V 12AH 3. Controller: 12V 10A 4. DC output: 4*DC12V,2*USB5V 5. LED Lamp: 3W*4pcs 6. phone adapter(1A) 7. With LCD display of working status 8. With switches for all output to save power 9. With FM/Mp3 player 10. With 12V DC charging input connector	7.9-9.0h	9-10h	8.5-9.5h	3.5-4.5h	NA
	4	SS-40W18-12V20M 1. Solar panel:40W 18V 2. Battery: 12V 20AH 3. Controller: 12V 10A 4. DC output: 4*DC12V,2*USB5V 5. LED Lamp: 3W*4pcs 6. phone adapter(1A) 7. With LCD display of working status 8. With switches for all output to save power 9. With FM/Mp3 player 10. With 12V DC charging input connector	8.0-10.0h	15-16h	16.5-17.5h	7.5-8.5h	NA

SOLAR OFF-GRID SYSTEM

AC+DC+MP3 Series

New power, New life !

AC + DC + MP3 Series

FIRMAN



DC 12V FAN



Computer



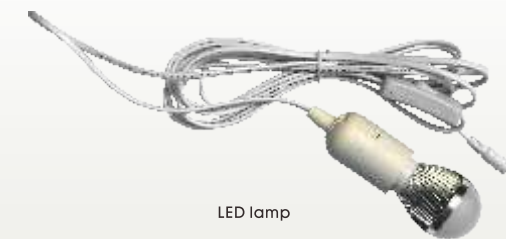
Printer



DC 12V TV/AC TV



FM/MP3 Player



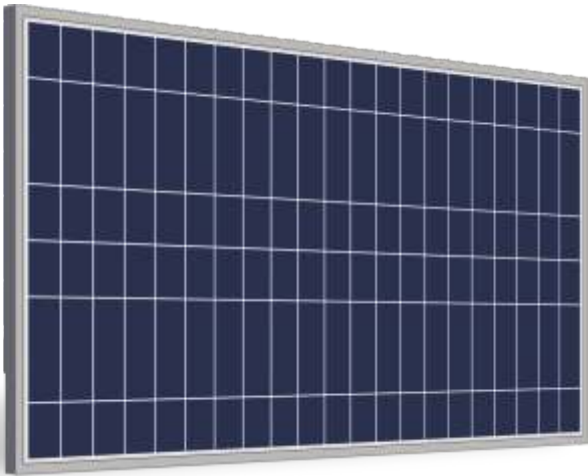
LED lamp



1 to 6 Phone adapter

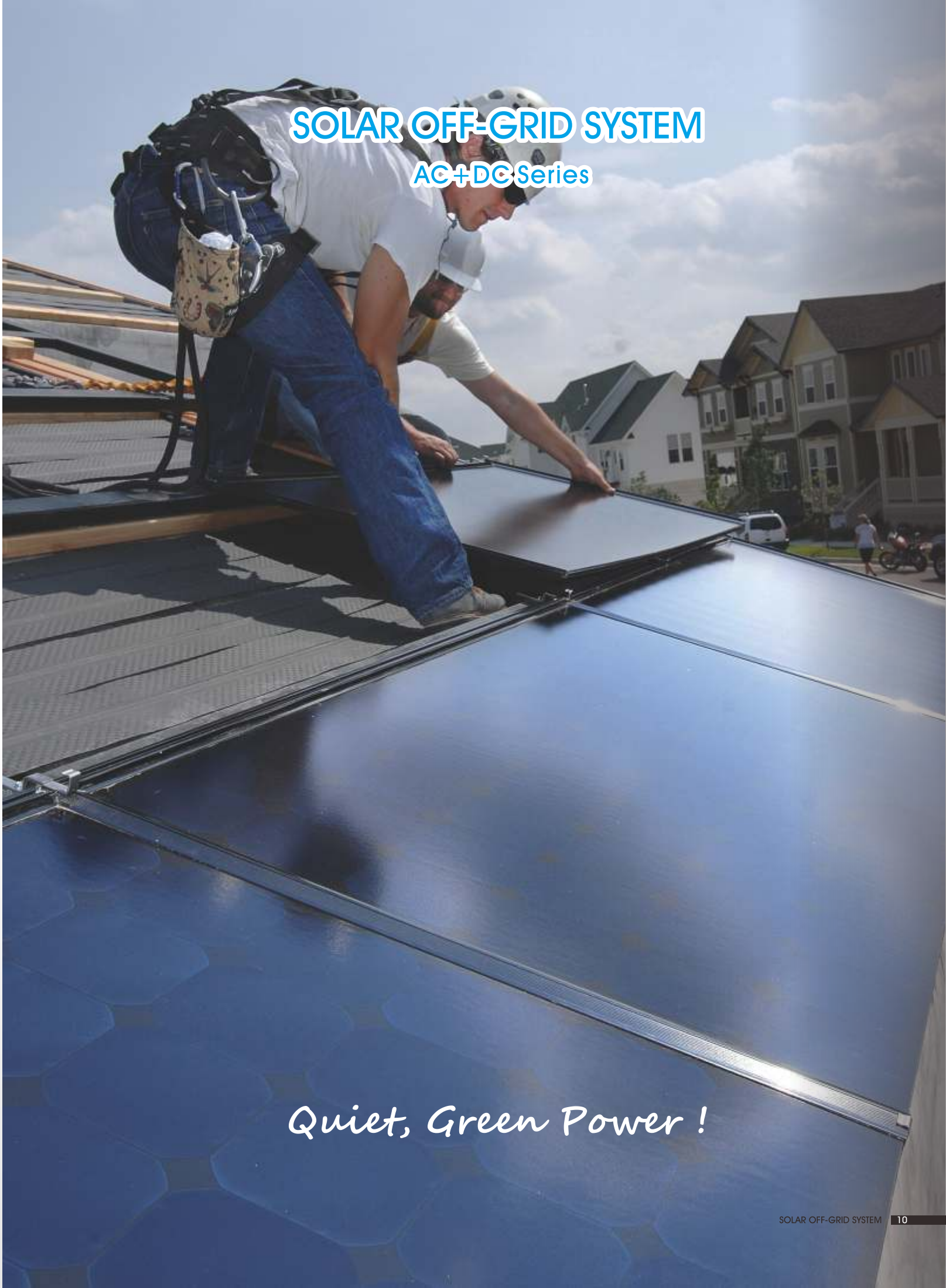
AC + DC + MP3 Series Features:

- DC output: 5V, 12V
5V: for mobile phone (USB connector)
12V: for LED lamp, DC TV, DC fan, etc
- Max. current output: 5V USB 1A, 12V DC 6A
- AC output: 110V, 120V, 220V, or 230V (only one voltage)
- Supply FM and MP3 player (MP3 needs inserting USB memory card)
- Panel equipped with LCD display of working status
- Panel equipped with switches for all output to save power
- Panel equipped with 12V DC charging input connector



FM / Mp3 PLAYER

No.	MODEL	Allocation	Fully Charging Time	Using Time			
				Lamps	12V/15W DC FAN	12V/30W DC TV	70W/21" AC TV
AC + DC + MP3	5	SS-40W18-12V20ACM 1. Solar panel: 40W 18V 2. Battery: 12V 20AH 3. Controller: 12V 10A 4. DC output: 4*DC12V,2*USB5V 5. Inverter: 300W 6. LED Lamp: 3W*2pcs, 5W*2pcs 7. phone adapter(1A) 8. With LCD display of working status 9. With switches for all output to save power 10. With FM/Mp3 player 11. With AC output: 110V, 120V, 220V, or 230V (only one voltage) 12. With 12V DC charging input connector	8.0-10.0h	12-13h	15.5-16.5h	7.5-8.5h	2.5-3.5h
	6	SS-100W18-12V50ACM 1. Solar panel: 100W 18V 2. Battery: 12V 50AH 3. Controller: 12V 10A 4. DC output: 4*DC12V,2*USB5V 5. Inverter: 300W 6. LED Lamp: 3W*2pcs, 5W*2pcs 7. phone adapter(1A) 8. With LCD display of working status 9. With switches for all output to save power 10. With FM/Mp3 player 11. With AC output: 110V, 120V, 220V, or 230V (only one voltage) 12. With 12V DC charging input connector	8.0-10.0h	27-29h	37-39h	18-19h	6-7h



SOLAR OFF-GRID SYSTEM
AC+DC Series

Quiet, Green Power !

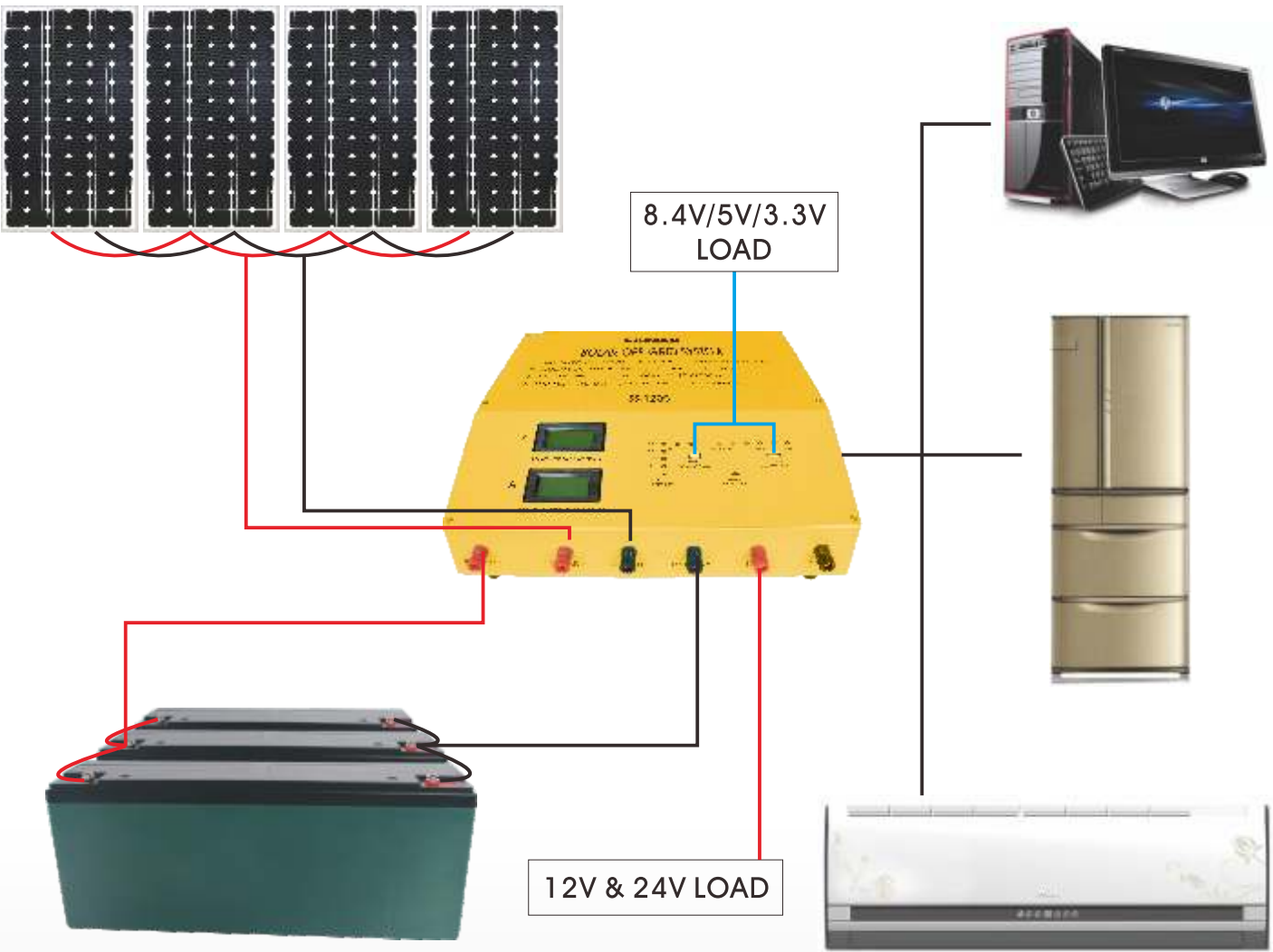


AC + DC Series Features:

- DC output : 3.3 V , 5V , 8.4V , and 12V
3.3V : for radio
5 V : for mobile phone (USB connector)
8.4V : for digital camera
12V : for LED lamp, DC TV, DC fans, etc.
- AC output:110V,120V,220V, or 230V (only one voltage)



No.		MODEL	Allocation	Fully Charging Time	Using Time			
					Lamps	12V/15W DC FAN	12V/30W DC TV	70W/21" AC TV
AC + DC	7	SS-200W18-12V100AC	1. Solar panel: 200W 18V 2. Battery: 12V 100AH 3. Controller: 12V 20A 4. DC output: 3.3V,5V,8.4V,12V,16V,19V,24V 5. Inverter: 600W 6. LED Lamp: 3W*8pcs, 5W*2pcs 7. phone adapter(1.5A) 8. With thorough working indicator 9. With switches for all output to save power 10.AC charging input	7.0-9.0h	33-35h	78-80h	39-40h	15-17h
	8	SS-360W18-12V200AC	1. Solar panel: 360W 18V 2. Battery: 12V 200AH 3. Controller: 12V 50A 4. DC output: 3.3V,5V,8.4V,12V,16V,19V,24V 5. Inverter: 1200W 6. LED Lamp: 3W*8pcs, 5W*2pcs 7. phone adapter(1.5A) 8. With thorough working indicator 9. With switches for all output to save power 10.AC charging input	8.0-10.0h	65-70h	155-160h	77-80h	30-33h



AC + DC Series Features:
(normally without battery & solar panel)

- DC output : 3.3 V , 5V , 8.4V , and 12V
3.3V : for radio
5 V : for mobile phone (USB connector)
8.4V : for digital camera
12V : for LED lamp, DC TV, DC fans, etc.
- AC output:110V,120V,220V, or 230V (only one voltage)
- Battery is connected externally
- More powerful
- can start refrigerator, air conditioner, small electric water pump, etc.



No.		MODEL	INVERTER	CONTROLLER	BATTERY SUPPORT	SOLAR SUPPORT	OUTPUT VOLTAGE	BOX WEIGHT
AC + DC	9	SS-1200	1200W	12V100A	12V1500HA	18V1800W	220V/12V 8.4V 5V 3.3V	9.85KG
	10	SS-1500	1500W	12V150A	12V2250AH	18V2700W	220V/12V 8.4V 5V 3.3V	14.2KG
	11	SS-2000	2000W	12V200A	12V3000AH	18V3600W	220V/12V 8.4V 5V 3.3V	14.56KG
	12	SS-3000	3000W	48V50A	48V750AH	72V3600W	220V/110V 60HZ/50HZ	10.8KG

- Remark:
1. The parameter of the solar panel & battery refers to the max. parameter the system machine be able to support, the final power of the matching solar panel & battery can be lower as required by customers.
 2. The controller in FS-S614 is MPPT controller
 3. For some models, the AC output of 110V/220V together with the frequency(50Hz and 60Hz), and the input power(12V/24V)can be switched on the inverter module

INVERTER: PURE SINE WAVE